5230 S. East Ave. Countryside, IL 60526 Phone: 708-579-7925 Fax: 708-579-7801

RECEIVED CENTRAL FAX CENTER

JUN 2 2 2004

Air Liquide



06/22/2004 14:04



*Comp		ir				
□ Urge	ent	☐ For Review	☐ Please Co	mment	☐ Please Reply	☐ Please Recycle
Re:		Patent Application 9 03,912	Serial Number	Seri #:	S5627	
Phone:	(571)272-1188		Pages:	13 (inc. cover page)
Fax:		872-9306		Date:	June 22, 2004	
To:	Exa	niner Fortuna, Jose	<u>A.</u>	From:	Christopher J. Croni	[]

OFFICIAL COMMUNICATION

Dear Examiner Fortuna,

Please enter the enclosed submission in full response to the Office Action of January 22, 2004. If you have any questions, I may be reached at the above telephone number.

Best regards,

Christopher J. Cronin Reg. No. 46,513

The information contained in this electronic message may be attorney privileged and confidential information intended only for the use of the owner of the email address listed as the recipient of this message. If you are not the intended recipient, or the employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any disclosure, dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this transmission in error, please immediately notify me by telephone and return the original message to me.

		U.S. Paten	t and Trademark Office	e HS D	PTO/SB/21 (02-04) sh 07/31/2006, OMB 0651-0031 EPARTMENT OF COMMERCE		
Under the Pacerwork Reduction Act of 1995.	no persons	are required to respond to a collection Application Number	of information unless it displays a valid OMB control ou 10/003,912				
TRANSMITTAL	Filing Date	October 31, 2001					
FORM	First Named Inventor	Frederick W. Giacobbe					
(to be used for all correspondence after initial fi	Art Unit	1731					
to be used for all correspondence enc. which	····	Examiner Name	Jose A. Fortuna		-w,		
	Attorney Docket Number	\$5627					
Total Number of Pages in This Submission	13		\$5627				
ENCLOSURES (Check all that apply)							
Fee Transmittal Form Fee Attached Amendment/Reply Atter Final Affidavits/declaration(s) Extension of Time Request Express Abandonment Request Information Disclosure Statement Certified (Copy of Priority Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53		Drawing(s) Licensing-related Papers Petition Petition to Convert to a Provisional Application Power of Attorney, Revocation Change of Correspondence Addr Terminal Disclaimer Request for Refund CD, Number of CD(s)	to Ap of Ap	Technologe peal Cor Appeals Cor peal Cor peal Not oprietary atus Letter Encline tily bel	osure(s) (please		
SIGNA	TURE (F APPLICANT, ATTORN	EY, OR AGEN	r			
Firm Christopher J. Cronin Reg. No. 46,513							
Date June 22, 2004		~~~~					
CI	ERTIFIC	CATE OF TRANSMISSION	N/MAILING				
I hereby certify that this correspondence is be sufficient postage as first class mail in an em the date shown below,	eing facsi /elope ad	imile transmitted to the USPTO o idressed to: Commissioner for Pa	r deposited with the tents, P.O. Box 14	United	States Postal Service with andria, VA 22313-1450 on		
Typed or printed name Christopher J. Cro	onin, Reg	. No. 46,513					
Signatura	_~_~	5000		Date	June 22, 2004		

This collection of Information is required by 37 CFR 1,5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application from to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief information Officer, U.S. Patent and Trademerk Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Check Credit card

Charge fee(s) Indicated below

1. BASIC FILING FEE

Şmail Entity

2001 385

2002 170

2003 265

2004 385

2005

80

Small Entity

Fee Fee

2202

2201 43

2204

2205

2203 145

and over original petent

(\$) 310

01-1375

Air Liquide

Deposit Account:

Deposit

Account

Number

Deposit

Name

arge Entity

Code (\$)

1001 770

1002 340

1003 530

1004 770

1005 160

Total Claims

Independent Claims

arge Entity

Code (\$)

1202 18

1201

1203 290

1204 86

1205 18

Multiple Dependent

86

1-708-579-7702

PTO/SB/17 (10-03) Approved for use through 07/31/2008. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Complete if Known FEE TRANSMITTAL 10/003.912 Application Number October 31, 2001 Filing Date for FY 2004 Frederick W. Giacobbe First Named Inventor Effective 10/01/2003. Petent fees are subject to annual revision. Jose A. Fortuna Examiner Name Applicant claims small entity status. See 37 CFR 1.27 1731 Art Unit (\$) 736.00 Serie 5627 TOTAL AMOUNT OF PAYMENT Attorney Docket No. FEE CALCULATION (continued) METHOD OF PAYMENT (check all that apply) 3. ADDITIONAL FEES Money Order Other None Large Entity , Small Entity Fee Description Fee Paid (\$) Code Code 65 Surcharge - late filing fee or oath 1051 130 2051 Surcharge - late provisional filing fee or cover sheet 1052 50 2052 25 1053 130 1053 130 Non-English specification The Director is authorized to: (check all that apply) 1812 2,520 For filing a request for ex parte reexamination 1812 2.520 Credit any overpayments Requesting publication of SIR prior to 920 1604 920° 1804 Charge any additional fee(s) or any underpayment of fee(s) Examiner action Requesting publication of SIR after Charge fee(s) indicated below, except for the filing fee 1805 1,840 1805 1.840* to the above-identified deposit account. Extension for reply within first month 420.00 1251 110 2251 55 FEE CALCULATION 210 Extension for raply within second month 1252 420 2252 475 Extension for reply Within third month 1253 950 2253 Fee Paid 740 Extension for reply within fourth month 2254 Fee Description 1254 1,480 1,005 Extension for reply within fifth month 1255 2,010 2255 Utility filing fee 2401 165 Notice of Appeal 1401 330 Design filing fee 165 Filing a brief in support of an appeal 1402 330 2402 Plant filing fee 145 Request for oral hearing 1403 290 2403 Reissue filing fec 1,510 Petition to Institute a public use proceeding 1451 1,510 1451 Provisional filing fee 55 Petition to revive - unavoldable 2452 1452 110 SUBTOTAL (1) (\$) 1453 1,330 2453 665 Petition to revive - unintentional 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE 2501 1501 1,330 665 Utility Issue fee (or reissue) ee from Fee Pald 2502 240 Design Issue fee 1502 480 Extra Claims below × 18 144 18 320 Plant issue fee 1503 640 2503 x 186 172 1460 130 Petitions to the Commissioner 130 1460 50 Processing fee under 37 CFR 1.17(q) 1807 1807 50 180 Submission of Information Disclosure Stmt 180 1806 1806 40 Recording each patent assignment per Fee Description 40 8021 8021 property (times number of properties) Claims in excess of 20 385 Filing a submission after final rejection (37 CFR 1.129(a)) 770 2809 1809 Independent claims in excess of 3 385 For each additional invention to be Multiple dependent claim, if not paid 1810 770 2810 examined (37 CFR 1.129(b)) * Reissue Independent claims 385 Request for Continued Examination (RCE) 770 2801 1801 over original patent 900 Request for expedited examination 1802 900 1802 ** Reissue claims in excess of 20

of a design application

**or number previous	SUBTOTAL (2) (\$) 310 hy paid, if greater: For Reissues, see above	*Reduced by Basic Filing Fee Paid	ATOTEUS	L (3) (\$) 420.00	
SUBMITTED BY			(Complete	(if applicable))	
	Christopher J. Cranin	Registration No. 46,513	Telephone	708-579-7925	
Signature	~ 22 ~~~		Date	June 22, 2004	

Other fee (specify)

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Petent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Application No. 10/003,912 Amendment dated June 22, 2004 Reply to Office Action of January 22, 2004

> Christopher J. Cronin Registration No. 46,513

AIR LIQUIDE CNTRYSDE

Date: June 22, 2004

Air Liquide 5230 S. East Ave. Countryside, IL 60525 (708) 579-7925 Phone (708) 579-7801 Fax

CERTIFICATE OF TRANSMISSION UNDER 37 CFR 1.8(a)

I hereby certify that this correspondence is being transmitted via facsimile to telephone number 703-872-9306 on this 22nd day of June, 2004.

Christopher J. Cronin Registration Number 46,513